

OIPF

RAW SEQUENCE LISTING

DATE: 04/23/2001

PATENT APPLICATION: US/09/828,432

TIME: 13:35:25

Input Set : A:\00145.US1.ST25.txt

Output Set: N:\CRF3\04232001\I828432.raw

ENTERED

```

3 <110> APPLICANT: Vogeli, Gabriel
4     Lind, Peter
5     Sejlitz, Torsten
6     Berthold, Malin
8 <120> TITLE OF INVENTION: Novel G Protein-Coupled Receptors
10 <130> FILE REFERENCE: 00145.US1
C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/828,432
C--> 12 <141> CURRENT FILING DATE: 2001-04-06
12 <150> PRIOR APPLICATION NUMBER: 60/195,228
13 <151> PRIOR FILING DATE: 2000-04-06
15 <150> PRIOR APPLICATION NUMBER: 60/251,313
16 <151> PRIOR FILING DATE: 2000-12-05
18 <160> NUMBER OF SEQ ID NOS: 10
20 <170> SOFTWARE: PatentIn version 3.0
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 2115
24 <212> TYPE: DNA
25 <213> ORGANISM: Homo sapiens
27 <400> SEQUENCE: 1
28 gcaaaagagc ccaggcagaa agacaaacct aaataagaat ctaacttctg taagaagctg    60
30 tgaagagtga tgcctggcgc tgccttttgc gactctaaact ccagcagcat gaatgtgtcc    120
32 ttgtctcacc tccacttttg cggagggtac ctgccctctg attcccagga ctggagaacc    180
34 atcatcccggt ctctcttggg ggcctgtctg ctgggtgggt tgcgtggaaa cctgtgtgtg    240
36 attgycatcc tcttccacaa tgccttgaaa ggaaagccat ccctgatcca ctccctgatt    300
38 ctgaatctca gcttggttga tctctccctc ctgctgtttt ctgcacctat ccgagctacg    360
40 ggcctactcca aaagtgtttg ggatctaggc tggtttgtct gcaagtcctc tgactggttt    420
42 atccacacat gcatggcagc caagagcctg acaatcgttg tggtgcccaa agtatgcttc    480
44 atgtatgcaa gtgaaccagc caagcaagtg agtatccaca actacaccat ctgggtcagt    540
46 ctgggtggcca tctggactgt ggcctagcctg ttaccctctg cggaatgggt ctttagcacc    600
48 atcaugcatc atgaaggtgt ggaaatgtgc ctctgtgatg taccagctgt ggctgaagag    660
50 tttatgtoga tgttttgtaa gctctaccca ctccctggcat ttggccttcc attatttttt    720
52 gccagctttt atttctggag agcttatgac caatgtaaaa aacgaggaac taagactcaa    780
54 aatctataga accagatacg ctcaaagcaa gtcacagtga tgcctgtgag cattgccatc    840
56 atctctctct tcttgtgggt ccccgaaatgg gtacgttggc tgtgggtatg gcactctgaag    900
58 gctgcaggcc cggccccacc acaaggtttc atagccctgt ctcaagtctt gatgttttcc    960
60 atctcttcag caaatctctt cttttttctt gtgatgtcgg aagagttcag ggaaggcttg    1020
62 aaagtgtgat ggaatggat gataaccaa aaacctccaa ctgtctcaga gtctcaggaa    1080
64 acaccagctg gcaactcaga gggctcttct gacaaggctc catctccaga atccccagca    1140
66 tccataccag aaaaagagaa acccagctct cctcctctct gcaaaaggaa aactgagaag    1200
68 gcagagattc ccactcttcc tgacgttagc cagttttggc atgagaggga cacagtccct    1260
70 tctgtacagg acaatgacct tatcccttgg gaacatgaag atcaagagac aggggaaggt    1320
72 gttaaataga ttttaagttc aaagcaaac aaactgtgat tattgtattt acttgactg    1380
74 ctgcttatca atattgctga ctttacaaac tgatataatt attaccatta ggaattataa    1440
76 aatattttca caatctacac ttcccaaatg tgcaatgtgg taagtagaga accatgttag    1500
78 aagtaataat tgtttcagaa ttagaacttg gcttcccaaa caatttaagt gttgtgtaaa    1560
80 gatgttgctg tcaaatgtat tagacagcct gctattctg tcatttggtc acagtggttt    1620
82 tactgggtac cccctaggac cagccctgta gtggaccggc tggagcctgc agtagaggtt    1680

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/828,432

DATE: 04/23/2001

TIME: 13:35:25

Input Set : A:\00145.US1.ST25.txt

Output Set: N:\CRF3\04232001\I828432.raw

```

84 ctgtcaaaagc tgagccccc ttaccttcagt ttaccccagg acctgctagt cetaatttta 1740
86 cctactaaat tgtatttcac ataaccaaaag ctcaaaatct actttcactt gagattttta 1800
88 acacattaat gataaatttt aatgggttct tcatttactt aataagtgtt aatttacttg 1860
90 atgaaaagtc cgtatcataa tgttcatgac tgaagggtcaa agaaaaagaa acagcacctt 1920
92 attccaattc tggactcatt tcaagccatg gctgggttctg gccaaagtta aataaattca 1980
94 gacttaaaat aaagccctgt tcagtgaact ttttaaagct acctgaatga gtcttcagtt 2040
96 totaagtota agaattgtag cagctttcca atgacattca gtagtctgat atggggggaaa 2100
98 aaaaaaaaaa aaaaaa 2115
101 <210> SEQ ID NO: 2
102 <211> LENGTH 419
103 <212> TYPE: PRT
104 <213> ORGANISM: Homo sapiens
106 <400> SEQUENCE 2
108 Met Leu Ala Ala Ala Phe Ala Asp Ser Asn Ser Ser Ser Met Asn Val
109 1 5 10 15
111 Ser Phe Ala His Leu His Phe Ala Gly Gly Tyr Leu Pro Ser Asp Ser
112 20 25 30
114 Gln Asp Trp Arg Thr Ile Ile Pro Ala Leu Leu Val Ala Val Cys Leu
115 35 40 45
117 Val Gly Phe Val Gly Asn Leu Cys Val Ile Gly Ile Leu Leu His Asn
118 50 55 60
120 Ala Trp Lys Gly Lys Pro Ser Met Ile His Ser Leu Ile Leu Asn Leu
121 65 70 75 80
123 Ser Leu Ala Asp Leu Ser Leu Leu Leu Phe Ser Ala Pro Ile Arg Ala
124 85 90 95
126 Thr Ala Tyr Ser Lys Ser Val Trp Asp Leu Gly Trp Phe Val Cys Lys
127 100 105 110
129 Ser Ser Asp Trp Phe Ile His Thr Cys Met Ala Ala Lys Ser Leu Thr
130 115 120 125
132 Ile Val Val Val Ala Lys Val Cys Phe Met Tyr Ala Ser Asp Pro Ala
133 130 135 140
135 Lys Gln Val Ser Ile His Asn Tyr Thr Ile Trp Ser Val Leu Val Ala
136 145 150 155 160
138 Ile Trp Thr Val Ala Ser Leu Leu Pro Leu Pro Glu Trp Phe Phe Ser
139 165 170 175
141 Thr Ile Arg His His Glu Gly Val Glu Met Cys Leu Val Asp Val Pro
142 180 185 190
144 Ala Val Ala Glu Glu Phe Met Ser Met Phe Gly Lys Leu Tyr Pro Leu
145 195 200 205
147 Leu Ala Phe Gly Leu Pro Leu Phe Phe Ala Ser Phe Tyr Phe Trp Arg
148 210 215 220
150 Ala Tyr Asp Gln Cys Lys Lys Arg Gly Thr Lys Thr Gln Asn Leu Arg
151 225 230 235 240
153 Asn Gln Ile Arg Ser Lys Lys Gln Val Thr Val Met Leu Leu Ser Ile Ala
154 245 250 255
156 Ile Ile Ser Ala Leu Leu Trp Leu Pro Glu Trp Val Ala Trp Leu Trp
157 260 265 270
159 Val Trp His Leu Lys Ala Ala Gly Pro Ala Pro Pro Gln Gly Phe Ile
160 275 280 285

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/828,432

DATE: 04/23/2001

TIME: 13:35:25

Input Set : A:\00145.US1.ST25.txt

Output Set: N:\CRF3\04232001\I828432.raw

```

162 Ala Leu Ser Gln Val Leu Met Phe Ser Ile Ser Ser Ala Asn Pro Leu
163      290      295      300
165 Ile Phe Leu Val Met Ser Glu Glu Phe Arg Glu Gly Leu Lys Gly Val
166 305      310      315      320
168 Trp Lys Trp Met Ile Thr Lys Lys Pro Pro Thr Val Ser Glu Ser Gln
169      325      330      335
171 Glu Phe Pro Ala Gly Asn Ser Glu Gly Leu Pro Asp Lys Val Pro Ser
172      340      345      350
174 Pro Glu Ser Pro Ala Ser Ile Pro Glu Lys Glu Lys Pro Ser Ser Pro
175      355      360      365
177 Ser Ser Gly Lys Gly Lys Thr Glu Lys Ala Glu Ile Pro Ile Leu Pro
178      370      375      380
180 Asp Val Glu Gln Phe Trp His Glu Arg Asp Thr Val Pro Ser Val Gln
181 385      390      395      400
183 Asp Asn Asp Pro Ile Pro Trp Glu His Glu Asp Gln Glu Thr Gly Glu
184      405      410      415
186 Gly Val Lys
189 (210) SEQ ID NO: 3
190 (211) LENGTH: 406
191 (212) TYPE: PRT
192 (213) ORGANISM: Homo sapiens
194 (400) SEQUENCE: 3
196 Met Asn Val Ser Phe Ala His Leu His Phe Ala Gly Gly Tyr Leu Pro
197 1      5      10      15
199 Ser Asp Ser Gln Asp Trp Arg Thr Ile Ile Pro Ala Leu Leu Val Ala
200      20      25      30
202 Val Cys Leu Val Gly Phe Val Gly Asn Leu Cys Val Ile Gly Ile Leu
203      35      40      45
205 Leu His Asn Ala Trp Lys Gly Lys Pro Ser Met Ile His Ser Leu Ile
206      50      55      60
208 Leu Asn Leu Ser Leu Ala Asp Leu Ser Leu Leu Phe Ser Ala Pro
209 65      70      75      80
211 Ile Arg Ala Thr Ala Tyr Ser Lys Ser Val Trp Asp Leu Gly Trp Phe
212      85      90      95
214 Val Cys Lys Ser Ser Asp Trp Phe Ile His Thr Cys Met Ala Ala Lys
215      100      105      110
217 Ser Leu Thr Ile Val Val Val Ala Lys Val Cys Phe Met Tyr Ala Ser
218      115      120      125
220 Asp Pro Ala Lys Gln Val Ser Ile His Asn Tyr Thr Ile Trp Ser Val
221      130      135      140
223 Leu Val Ala Ile Trp Thr Val Ala Ser Leu Leu Pro Leu Pro Glu Trp
224 145      150      155      160
226 Phe Phe Ser Thr Ile Arg His His Glu Gly Val Glu Met Cys Leu Val
227      165      170      175
229 Asp Val Pro Ala Val Ala Glu Glu Phe Met Ser Met Phe Gly Lys Leu
230      180      185      190
232 Tyr Pro Leu Leu Ala Phe Gly Leu Pro Leu Phe Phe Ala Ser Phe Tyr
233      195      200      205
235 Phe Trp Arg Ala Tyr Asp Gln Cys Lys Lys Arg Gly Thr Lys Thr Gln

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/828,432

DATE: 04/23/2001

TIME: 13:35:26

Input Set : A:\00145.US1.ST25.txt

Output Set: N:\CRF3\04232001\I828432.raw

```

236      210      215      220
238 Asn Leu Arg Asn Gln Ile Arg Ser Lys Gln Val Thr Val Met Leu Leu
239 225      230      235      240
241 Ser Ile Ala Ile Ile Ser Ala Leu Leu Trp Leu Pro Glu Trp Val Ala
242      245      250      255
244 Trp Leu Trp Val Trp His Leu Lys Ala Ala Gly Pro Ala Pro Pro Gln
245      260      265      270
247 Gly Phe Ile Ala Leu Ser Gln Val Leu Met Phe Ser Ile Ser Ser Ala
248      275      280      285
250 Asn Pro Leu Ile Phe Leu Val Met Ser Glu Glu Phe Arg Glu Gly Leu
251      290      295      300
253 Lys Gly Val Trp Lys Trp Met Ile Thr Lys Lys Pro Pro Thr Val Ser
254 305      310      315      320
256 Glu Ser Gln Glu Thr Pro Ala Gly Asn Ser Glu Gly Leu Pro Asp Lys
257      325      330      335
259 Val Pro Ser Pro Glu Ser Pro Ala Ser Ile Pro Glu Lys Glu Lys Pro
260      340      345      350
262 Ser Ser Pro Ser Ser Gly Lys Gly Lys Thr Glu Lys Ala Glu Ile Pro
263      355      360      365
265 Ile Leu Pro Asp Val Glu Gln Phe Trp His Glu Arg Asp Thr Val Pro
266      370      375      380
268 Ser Val Gln Asp Asn Asp Pro Ile Pro Trp Glu His Glu Asp Gln Glu
269 385      390      395      400
271 Thr Gly Glu Gly Val Lys
272      405

```

274 <210> SEQ ID NO: 4

275 <211> LENGTH: 18

276 <212> TYPE: DNA

277 <213> ORGANISM: Homo sapiens

279 <400> SEQUENCE: 4

280 ttcttgaggc ttatgacc

18

283 <210> SEQ ID NO: 5

284 <211> LENGTH: 20

285 <212> TYPE: DNA

286 <213> ORGANISM: Homo sapiens

288 <400> SEQUENCE: 5

289 attctggaga tggaaccttg

20

292 <210> SEQ ID NO: 6

293 <211> LENGTH: 25

294 <212> TYPE: DNA

295 <213> ORGANISM: Homo sapiens

297 <400> SEQUENCE: 6

298 tcaattgctt ggctgggtca cttgc

25

301 <210> SEQ ID NO: 7

302 <211> LENGTH: 25

303 <212> TYPE: DNA

304 <213> ORGANISM: Homo sapiens

306 <400> SEQUENCE: 7

307 gtcaggagac ttgcagacaa accag

25

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/828,432

DATE: 04/23/2001

TIME: 13:35:26

Input Set A:\00145.US1.ST25.txt

Output Set N:\CRF3\04232001\I828432.raw

```

310 <210> SEQ ID NO: 8
311 <211> LENGTH: 20
312 <212> TYPE: DNA
313 <213> ORGANISM Homo sapiens
315 <400> SEQUENCE 8
316 gccaaagagcc tgacaatcgt 20
319 <210> SEQ ID NO: 9
320 <211> LENGTH: 20
321 <212> TYPE: DNA
322 <213> ORGANISM Homo sapiens
324 <400> SEQUENCE 9
325 tgctcagcag catcactgtg 20
328 <210> SEQ ID NO: 10
329 <211> LENGTH: 4
330 <212> TYPE: PRT
331 <213> ORGANISM Artificial Sequence
333 <220> FEATURE:
334 <221> NAME/KEY: misc_feature
335 <223> OTHER INFORMATION: Peptide substrate
338 <400> SEQUENCE 10
340 Ala Pro Arg Thr Pro Gly Gly Arg Arg
341 1 5

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/828,432

DATE: 04/23/2001

TIME: 13:35:27

Input Set A:\00145.US1.ST25.txt

Output Set N:\CRF3\04232001\I828432.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date